XPERIMENTS IN TREE PLANTING.

Planting Tests From Which Some onishing Facts Were Gathered.

(By W. R. Gilbert.) account of a series of experis in tree planting several yars in which I participated, may be

may premise by stating the extrapary fact that apple trees planted y, according to current rules as to planting, grew better than those ted in the orthodox way.

rees with injured roots not trimwere huddled into small holes. soil over them being stamped violy and yet they made more growth trees planted in the usual way the roots carefully trimmed to off broken or bruised portions.

the following experiments of trees, 560 in all, consisting of les, pears, plums and cherries were and the result of the first year of trials were as astounding as those tioned above and even still more

wo sets of trees, as nearly as pose equal in size and vigor were tried inst each other in each experiment. set being planted in what is ally regarded as the correct manwhile the trees of the other set e stuck into the holes gate-post hion and the soil placed over the is was rammed heavily while it thoroughly puddled.

but of ten trials with apple trees se which had been put in roughly rammed gave greater wood with in the first season than the ers in eight instances, the excess nging from 8 to 89 per cent and of the exceptions was carried out such a light and sandy soil that effect of ramming was slight and short duration.

It was concluded that the effect of jury to the roots leads to the foration of a fresh set of roots, while e ramming puts the soil in close mtact with the roots and probably creases its capillarity.

As it may be presumed that trees of kinds and not fruit trees alone ould be similarly affected by the ethods of planting, the subject is of

reat importance. For my part I cannot believe that e ramming did much damage to the oots for it is inconceivable that badly ashed roots was the result, for ex-

In speaking of putting the trees in mall holes, this is somewhat after the tringfellow method where the roots the trees are trimmed off to mere tumps and the tops much the same nd the trees are thrust into the holes nd rammed. The chief object of this ystem is to make the trees send roots eeply into the soil, as a security gainst drought.

Great success has attended the sysem of packing the under soil comactly while keeping the top soil in a ne state of looseness by means of freuent cultivation, followed by mulch-

The capillary of the lower soil is ncreased by its close packing so that vater from below is induced to raise bundantly to the roots of the trees and plants while its evaporation is thecked by the fine and loose condition of the surface soil.

I believe that these experiments went far to prove that a heavier tamping in of the soil over the roots of trees than is commonly practiced, or eveen ramming is beneficial, and that cutting the roots back, say within three inches of the stems, causes the development of a more healthy and vigorous root system than is produced by only tipping the bruised ends.

But, as I have said, it seems conof the roots, per se, is beneficial.

The compression of the soil in a wide hole is desirable to an extent when it is not too wet, but planting in a narrow hole where the roots are cramped and curled must be condemned in the light of general experience which proves beyond all question conducive to rapid and healthy alfalfa, \$9.50.

What do we find on digging up a dwarfed, dying or otherwise unhealthy bush? Almost, if not invariably, we see roots cramped and twisted and almost devoid of fibres. And why does transplanting young trees and bushes in a nursery induce the production of a mass of fibrous roots. except as a consequence of transference from a stale and compact place. to soil in condition of friable mould?

pressure over the roots in planting may be advantageous, but it does not follow that solidity to check sideways root growth is also beneficial. If it were so the annual digging, or, rather, forking of fruit plantations would call

for condemnation. Experienced growers of fruit mostly agree that they always find that trees planted well in acco raedcnwm 12345 planted well in accordance with what is generally considered the proper methods flourish better than those less carefully planted and this, there is every reason to believe, is the common experience.

I am sure that experiments serve & recommend growers of fruit not to act | calves are allowed on a large scale upon the results of cows. any experiment, and although firmer planting than is usual may be tried, prudence directs that any further testing of the methods described should he limited, for some time to come, at least, to small operations.

MARKETING EGGS FROM THE FARM.

(By N. E. CHAPMAN.)

eggs, dirty eggs, breakage, shrunken the plant. and rotten eggs, mouldly and flavored eggs. Eggs must weigh two ounces eggs should be consumed on the farm, exactly the same "eye" each time, and rather than be sold at a reduced if this eye is removed no more flowers price. Like eggs too small, eggs abnormally large or misshaped should be used at home, for such will be stimulant most flowers need when they always classed as "seconds."

About five eggs out of each hundred marketed are classed as "dirties." These are stained, smeared, muddy, or covered with filth. The odor of whatever soils the egg will soon penetrate the shell and flavor the contents. Market eggs should never be washed, as they take odors more rapidly and soon are stale. Eggs may be washed, howeveri for use at home. Eggs carried to market in bran are generally classed as "dirties." The bran adheres to the shell, and is difficult to

It is estimated that 8 per cent of the eggs are broken in moving from producer to consumer. Checked, dented or leaking eggs soon sour, and must be marketed at greatly reduced prices. If checked or broken on the way to market, they should be taken home for use in the family.

Eggs should be gathered often and kept in a cool, dry place until the are always obtained. first opportunity for marketing. Broody hens should be taken from the nests at once, and confined by themselves, unless needed for hatching purposes. After the hatching season is over, all roosters should be sold or confined, and not allowed to run with the laying flock during the summer. Hens will lay more eggs, and be in better health without the male birds. Infertile eggs are far superior for preserving, shipping and storing.

Sixty-five per cent of the contents of a fresh egg is water; and because of a porus shell this evaporates rapidly under most conditions, resulting in loss of weight and value. As soon as the newly-laid egg cools, an air-cell appears, which increases in size as the contents shrink from evaporation. Shrunken eggs may be detected by "candling," or by gently shaking when held to the ear. When the "gurgle" of the contents is distinct, the egg is questionable. The membrane of such CURE THE HORSE'S COUGH. eggs is often ruptured in handling and shipping, resulting in "frothy" eggs, of poor quality. In the summer eggs should receive the same care and consideration as sweet milk and cream, and be marketed daily, if possible. They should not be exposed to draughts of warm air, and should be protected from the rays of the 'sun and moisture, in handling, marketing

Moisture is the main cause of rotten eggs. Nests on the ground or in wet straw, together with damp cellars and moist "fillers" in egg-cases, are mainly responsible for this condition. A fresh egg will absorb odors as readily as fresh milk. Mustiness or mouldy growth in egg-cases or fillers will taint the egg and lower its quality. Eggs should not be stored in musty cellars, or in rooms with fruit, vegetables or fish. The chickens should never be allowed to drink filthy water, be fed musty grain or strongflavored vegetables, as onions and garlic, nor given access to decaying meat or substances that will flavor the product and impair its quality.

FERTILITY ON THE FARM.

When hay and grain are sold off the farm, there is a rapid loss in soil fertrary to all reason that the bruising tility. When products are marketed in the form of milk or meat the loss is materially less. The fertilizing values in one ton each of some of the standard farm products, based on the selling price of commercial fertilizers would make the manurial elements in butter worth 50 cents; of milk, \$2.09; that a wide spread of fibrous roots is \$7.75; of clover hay, \$9.07; and of

> Cows require ventilation just the same as human beings, but many farmers do not think so, judging from the odor and heat that meets one upon first entering the stables. Yet they should not be cold. Means should be devised for pure air circulation without any direct draughts.

When possible to avoid it, never give a full draught of water within an Almost any practicable degree of hour after feeding the horses. This effect is to carry much undigested food into the bowels, producing serious disorganization thereof.

> Chicken pox among the fowls can be avoided by feeding plenty of charcoal and occasionally some sulphur. It is a blood disease, aggravated by unclean surroundings.

Chicken lice and mites are now putting in their best licks at night just when the fowls need rest. Get after them with the kerosene can and

Back end to is the way to hitch a horse out where the wind is blowing. When they are loose so they can do as they like you never saw a horse stand facing a sterm.

BLOOMING NOTES.

The sweet pea demands a daily stripping of every bloom. Producing seeds is done at the expense of The common causes of loss may be blooms. However, flowers should be classed under several heads: Small cut with sharp shears, never torn from

Never cut the flowers of the "Wax Plant" unless you wish no further or over to be classed as No. 1. Lighter blooms. Its flowers are produced in will develop.

Weak liquid manure is just the easily crushed in the case, and are bloom. Do not stint them in this re-

Another aid to profusion of flowers s plenty of water

The dust mulch in time of drought is beneficial when water is scarce.

The late summer and fall market should not be glutted with young brood sows, as they are many times. Young and middle aged sows should be kept on the farm, provided they take good care of them.

It is not necessary for the cow to give only a small quantity of milk in order that the milk may be rich. One can use a breed that is famous for their yield of rich milk rather than to get rich milk from a low breed

It is being gradually understood that the best cow is the cheapest, regardless of the price paid for her and for such correspondingly good prices

It is said that a hog fed exclusively on corn will starve to death in about 120 days, but no wise farmer is in danger of making the experiment.

KEEP THE POULTRY FREE FROM LICE.

It doesn't do a bit of harm to say over and over that insect enemies should be kept in subjection at all times. Put two ounces of carbolic acid in a gallon of coal oil and keep it in a stone jug. This makes a good inshecticide and disinfectant. Paint perches and insides of the walls with this and no insect enemies will trouble your fowls. Paint the perches every week, top, bottom and sides, and the walls every two weeks .-- W. Purvis.

Many times a severe cough in a horse can be corrected by the use of the following remedy: Nitrate of potash, three drachm; powdered digitalis, three-fourths drachm; camphor, three drachms. Mix well, divide into two equal parts and make each into a ball with a little raw linseed oil. Give one dose in the morning and the other in the evening. Continue each alternate day until relief is noticed.

A USEFUL ANIMAL.

Mr. Nelson, a Western farmer, possesses a gentleman hog for which he has refused several hundred dollars. This hob is broken to the saddle and his owner rides him around his farm on his daily trip of "looking things over." The animal is not much on speed, his record being a mile in fourteen minutes, but the novelty of riding the hog pleases Mr. Nelson.

If the pastures fail late in the fall the breeding eyes should be givn extra feed in order to keep in good condition so there will be no trouble in getting them in lamb.

Pigs will not drink as much water as they require if it is very cold and warming the water has induced them to drink more, besides, it is cheaper to warm the water with fuel than to warm it with grain foods.

Bloody milk is due to tiny hemorrages or leakages of blood from the smaller blood vessels in the udder.

county recently sold timber and reduce the gain, also affecting the appetite and general health of the pig. of almost equal value. One man got \$1,800. The other electric motor to run a fodder cutter man, who knew timber values and how to market wisely, got \$7,000.

THE PROGRESSIVE FARMER is just now preparing to print a notable series of articles on "How to Market Timber" which will help you get your money's worth. If you are not already reading the South's greatest farm weekly, send 10 cents-stamps or No breed of dairy cows can continue cash-for a 10-weeks' "get acquaintuseful purpose but should strongly as first-class dairy animals if the ed" trial subscription, including these Courses leading to degrees. Special timber articles. Then you'll want the paper every week.

RALEIGH, N. C.

\$3.50 Receipe Free, For Weak Men.

Send Name and Address Today---You Can Have it Free and Be Strong and Vigorous.

I have in my possession a prescription for perrous debility, lack of vigor, weakened manhood, failing memory and lame back brought on by excess, unnatural drains, or the follies of youth, that has cured som any worn and nervous men right in their own homes without any additional belo or medicine-that I think every man who wishes to regain his manly power and vir ility, quickly and quietly, should have a copy. So I have determined to send a copy farrow fair-sized litters of pigs and of the prescription free of charge, in a plain, ordinary scaled envelope to suy man who will write me for it.

This prescription comes from a physician who has made a special study of men and t am convinced it is the surest acting sombi nation for the cure of deficient manhood and vigor failure ever put together

I think I owe it to my fellow man to send them a copy in confidence so that any man anywhere who is weak and discour aged with repeated failures may stop drug ging himself with harmful patent medicines, secure what I believe is the quickent acting restorative, upbuilding, SPOT TOUCHING remedy ever devised, and a cure himself at home quietly and quickly Just drop me a line like this: Dr. A. F. Robinson, 4845 Luck Building, Detroit, Mich., and I will send you a copy of this splendid recipe in a plain ordinary eavel ope free of charge. A great many doctors would charge \$3.00 to \$5.00 for merely writing out a prescription like this but I send it entirely free

ORGANIZING THE FARMERS.

Movement Successful Because Started by Farmers Themselves.

Davidson county, N. C. has an agricuitural organization with headquar ters at the county seat in Lexington Local assciations have been formed at every one of 20 different points in the county. At Holly Grove is to be found the real reason and the exciting cause for the "better farming tour" of the Davidson county agricultural asociation with is twice and some thrice a day speakings and daily corn shows, held in storehouses, churches, old ut-of-the-way schoolhouses, buildings, fraternity halls, opera houses, and at cross roads under spreading oak trees, says awriter in Southern Farming.

In 1911 some half-dozen progressive spirits formed themselves into a union, called the Davidson county good roads and agricultural associa tion. Was this organization formed to hold corn shows and thus boost the price? No, the merchants were paying as much in Lexington as else where. Was the price of cotton too low, and was this association formed to cut down the acreage? No, the price of cotton had been very satisfactory to most of them. Was it formed to protest against the low price of wheat, a leading crop of this county? No, wheat had been selling for more than a dollar a bushel, whih most of them felt was nearly enough. What, then, could have actuated these men n the novel move-

The object of the association was to arouse interest among the farmers and create an incentive fr growing more corn, wheat and other food and feed products per acre, and thus take advantage of the most excellent market which had quietly, but surely sprung up right at their own dools.

So the movement was set on foot and the agitation began. The first auxiliary association was formed in Holly Grove township. Perhaps the worst roads n the county in 1910 were to be found in that township. Now they are the best. Some of the poorest land occurs here, but Holly Grove township for 1911, made the largest acre yield of corn made by any adult farmer in the State.

Sweet corn should be planted three times in June, which will give you 'roasting ears" 'till late in summer

Dirt and fifth taken into the stom-Two farmers in Catawba ach along with feed impair digestion

> A progressive Ohio farmer uses an and a blower to blow out the cut food

THE NORTH CAROLINA State Normal and Industrial College

Maintained by the State for the Women of North Carolina. Five regular Courses for teachers. Free tuition to those who agree to become teachers in the State. Fall Session begins September 17, 1913. For catalogue and other information, address

JULIUS I. FOUST, President, Greensboro, N. C.